

DATA SHEET

6500-T12/T24

6500 Packet-Optical Platform

With the ability to scale to Terabit/s switching per slot and flexibly route wavelengths without restriction across any one of 16 directions, the programmable 6500 T-Series configurations enable service providers to efficiently distribute customizable content to their end-users and provide an on-demand, superior customer experience.

As traffic demands continue to grow and become more unpredictable, requirements for next-generation networks are increasing in scope. Transport systems must adapt their capabilities for a web-scale world by enabling more agile, more responsive, and higher-capacity solutions. The newest addition to the 6500 family, Ciena's T-Series shelf configurations provide the capacity to meet web-scale demand, as well as the intelligence and programmability to adapt to unpredictable service growth.

Ciena's 6500 Packet-Optical Platform converges packet, Optical Transport Network (OTN), and flexible WaveLogic Photonics capabilities in a single platform, as well as across multiple shelf configurations with a single software stream, helping service providers streamline operations and optimize footprint, power, and capacity to specific site requirements.

Capable of scaling to Terabit/s switching per slot, 6500 T-Series represents a new family of shelves that evolve from the 6500 S-Series (100 Gb/s per slot Packet/OTN switching) shelves to address high-capacity applications in a very dense and compact form factor. Inherent with the rest of the 6500 family, the 6500 T-Series offers the same programmability benefits for ultra-high-capacity switching sites in the network. These include multilayer control plane and flexible grid CDC ROADM, eliminating service routing restrictions and maximizing service availability, network bandwidth utilization, and return on investment.

The 6500-T12/T24 shelves, part of the 6500 family, operate with the robust and feature-rich 6500 software, and support high-density, high-capacity hardware modules.



Features and Benefits

- Addresses ultra-high capacity requirements using less hardware via converged packet, OTN, and DWDM functions in a single platform
- Provides significant power and space savings with support of 6Tb/s of capacity in less than half a rack and 12Tb/s per rack scaling to double the nodal capacity in the future
- Leverages fully non-blocking ODU0 granular switching, with ODUFlex capabilities, to quickly respond to on-demand bandwidth needs with the most efficient use of network resources
- Supports a modular photonic architecture, providing lowest first-in costs and pay-as-you-grow benefits
- Provides fully flexible wavelength routing without restrictions using Ciena's industry-leading WaveLogic Photonics with Flexible Grid CDC ROADM
- Enables programmability with multilayer control plane offering ease-of-management advantages as well as a wide breadth of SLA offerings